

## **627 FIELD LAYOUT**

### **627.01 GENERAL**

Work under this item consists of furnishing all lines, grades and measurements as shown on the contract plans and as directed by the Engineer. The Contractor shall perform all engineering layouts from baselines and bench marks indicated on the drawings and shall be responsible for all measurements in connection therewith. He shall verify all dimensions and elevation shown on the plans before construction begins and shall be responsible for the accuracy of the finished work.

The Contractor shall furnish at his expense all stakes, nails, equipment, tools, materials and labor as may be required in laying out any part of the work from the bench marks and base lines as shown on the Plans. The Contractor shall protect and preserve established bench marks and control points and make no changes in location without the approval of the Engineer. Bench marks and control points lost or destroyed or which require relocation because of necessary changes in grades or alignment shall be replaced and accurately located at the Contractors expense.

The Engineer will furnish only the baseline and bench marks for bridge projects and other structure projects, and paving and grading projects. The Contractor shall perform all remaining engineering layout in an approved manner. Layout for all projects shall be performed by competent surveyors under the direction of a Registered Professional Engineer.

The Contractor shall accurately record all field notes and data in appropriate field books for the Engineer. The Engineer shall be informed when measurements are to be taken for the purpose of determining excavation and fill quantities. At the end of the project, all notes and field books shall become the property of the District of Columbia.

Work shall be performed only within authorized lines and grades; operations outside authorized areas will not be included for measure and payment.

Stakes or marks the Engineer sets for guidance shall be preserved by the Contractor. If, in the opinion of the Engineer, stakes are displaced, removed or lost due to Contractor's negligence, they will be replaced by the Contractor at his own expense.

### **627.02 MATCH OLD WORK**

The Contractor shall assume full responsibility for successfully carrying out the complete construction and the fitting of all members. Dimensions shown on the drawings taken from original design and shop drawings are not guaranteed. Where new work is to be fitted to old work, the Contractor shall be responsible for checking all dimensions and conditions in the field. If the parts do not fit properly, the Contractor shall make alterations to the new parts necessary to assure proper fit and connection in accordance with instructions of the Engineer, at no additional expense to the District.

Prior to preparing his bid, the Contractor shall visit the worksite and carefully examine the condition of the various parts of the structure and then include in his bid, costs for making measurements necessary or convenient for the proper completion of the work.

### **627.03 MEASUREMENT AND PAYMENT**

The unit of measure will be the job. No direct measure will be taken for this work. Payment for

FIELD LAYOUT will be made at the contract lump sum price, which payment will include all labor, tools, materials, equipment and incidentals necessary to complete the work as specified.